

SUBJECT INDEX

Vol. 127B, Nos. 1-4

- Abbreviated larval development, 459
 Accumulation, 423
 Acid glycosidases, 383
 Actin, 551
 Activating factor, 299
 Activity, 383
 Adaptation, 251, 469
 Adenine nucleotides, 147
 Adipose tissue, 173
 Amebocyte, 31
 Amino acid modifiers, 155
 Amino acids, 105
 Amino acid sequence, 183, 481
 Amylase, 481
 α -Amylase, 481
 Anaerobiosis, 45
 Androgenic gland, 411
Anguilla japonica, 525
 Animal lectin, 243
 Animal lectins, 0
Anodonta, 105
 Anoxia, 469
 Anserine, 443
 Antarctic, 575
 Antarctic krill, 325
Anthopleura, 513
 Anti-CapZ antibodies, 551
 Anticoagulant activity, 21
 Antigen, 0
 Antiophidian activity, 21
 Antioxidant enzymes, 123
 Antioxidants, 347
Apis mellifera venom, 21
Aplysia, 505
 Arachidonic acid, 31, 563
 Archaea, 299
 Arginine kinase, 505, 513
 Asialofetuin-binding, 0
Astacus leptodactylus, 309
 Astaxanthin *E/Z* isomers, 423
 Atlantic halibut, 423
 Atlantic salmon, 423
 ATPase, 575
- Bank vole (*Clethrionomys glareolus*), 357
 Benzimidazole derivative linked to ethylbenzene, 193
 BeWo cells, 0
 Biomineralization, 105, 235
Biomphalaria glabrata, 235
 Biopterin, 65
 Blattodea, 261
 Borage oil, 213
 Branchial enzymes, 85
 Brown adipose tissue, 213
 Bullfrog, 563
- Caenorhabditis elegans, 469
 Calcium binding, 235
 Calcium cycling, 223
 Calcium-dependent, 0
 Calpain, 75
 CapZ, 551
 Carbonic anhydrase, 85
 Carnosinase, 443
 Carnosine, 443
 Carotenoids, 309, 423
Casearia sylvestris, 21
 Ca^{2+} -signaling, 391
 Catalase, 447
 Catalytic activity, 155
 Catalytic efficiency, 399
 CDNA, 447
- CDNA cloning, 65
 CDNA sequencing, 433
Cellana, 505
 Chagas disease, 11
Chasmagnathus granulata, 85
 Chemotaxonomy, 261
Cherax quadricarinatus, 411
 Chromatographic separation, 11
 Chum salmon, 337
Cochliobolus lunatus, 53
 Cockroaches, 261
 Coelomocytes, 491
 Cold acclimation, 319
 Cold-adapted, 399
 Comparative characterization, 53
 Con A chromatography, 193
 Coproporphyrin, 155
 Coproporphyrinogen oxidase, 155
 Crabs, 85, 375
 Crayfish, 533
 Crayfish development, 309
 Creatine kinase, 513
 Cross-reactivity, 0
 Crustacea, 411
 Crustacean, 243
 Crustacean lectin, 165
 Crustaceans, 85
 Cuticular hydrocarbons, 261
 Cytochrome *c* oxidase, 319
- Danio rerio*, 447
 Decapoda, 411
 Decapods, 85
 Depot fat, 173
 Deuterium, 279
 Developmental regulation, 165
 Dietary fat, 213
 Diets, 375
 Digestibility, 423
 DNA polymerase, 299
 DNA polymerases, 11
Dosinia lupinus, 347
- Echinoderm, 491
 Ectoparasitoid, 289
 Edema-inducing activity, 21
 Electrophoresis, 193
 Elemental composition, 459
 ELISA, 165
 Embryogenesis, 309
 Endothermy, 223
 Endotrophic period, 309
 Endo-1,4- β -xylanases, 325
 Energy metabolism, 147, 279
 Entomopathogenic nematodes, 279
 Enzyme, 155
 Enzyme activity, 469
 Erythrocytes, 563
 Esterification processes, 309
Eulophus, 289
 Euphausia superba, 325
 European sea bass, 183
 Euryarchaeota, 299
 Evolution, 433, 575
 Excitation-contraction coupling, 223
 Expression, 575
- Fatty acids, 459
 F1,6Bpase, 123
 α -Fetoprotein, 251
 Ficin, 193
 Fish, 97, 223, 433
- Fish striated muscle, 551
 Free astaxanthin, 309
 Free radicals, 347
 Freshwater, 105
 Freshwater astacidea, 309
 Fructose 2,6-bisphosphate, 45
 Fungi, 53
- Gadus morhua*, 399
 Gamma (γ)-linolenic acid, 213
 Gander, 383
 Gastrointestinal hormones, 173
 Gastropoda, 505
 Gene, 513
 Gene expression, 213
 Genetic polymorphism, 1
 Geographical comparisons, 261
 Ghost shrimp, 459
 Gills, 85
 β -Globins, 1
 Gluconeogenesis, 123, 279, 375
 Glucosamine, 105
 Glucose-dependant insulinotropic polypeptide, 173
 Glucose-6-phosphate, 123
 Glutathione peroxidase, 319
 Glutathione reductase, 319
 Glycan-phosphatidylinositol anchor, 193
 Glycogen, 279
 Glycolysis, 45
 Glycoprotein, 243
 Granulocyte, 31
 Growth, 459
 Growth hormone, 183
 GTP-binding protein, 75
 GTP cyclohydrolase I, 65
- Haemolymph, 289
 HDL, 411
 Heater tissue, 223
 Heavy metals, 105, 391
 Helix-loop-helix, 97
 Hemocytes, 203
 Hemoglobin, 563
 Hemolymphatic lipoproteins, 411
 Hepatocytes, 147
 Hepatopancreas, 375
 1H -NMR, 357
 Homocarnosine, 443
 Human, 443
 Hydrocarbon variability, 261
 Hydrogen peroxide, 203
 13-Hydroperoxy-9, 563
 17 β -Hydroxysteroid dehydrogenase, 53
 Hyperglycemic hormone, 243
 Hyperthermophile, 299
 Hyposmotic stress, 375
- Iodoxanthin, 423
 Immuno-electrophoresis, 251
 Immunoglobulin M, 525
 Immunoglobulin M level, 525
 Immunoglobulin superfamily proteins, 243
 Inhibition, 173
 Insect immunity, 289
 Insulin, 173
 Insulin-like growth factor-II receptor, 433
 Interactions, 173
 Intermediate filaments, 491
 Intestinal alkaline phosphatase, 193
 Introgressive hybridization, 1
 Intron, 513

Subject Index

- Inverse substrate, 337
 Invertebrate immunology, 31
 Isotopic labelling, 279
- Japanese eel, 525
 JAr cells, 0
- Kidney, 443
 Kidney cortex, 369
 Kidney medulla, 369
 Kidney metabolism, 357
 Kinetics, 123
 Kinetics of tryptic hydrolysis, 337
- Lacnobia*, 289
 α -Lactalbumins, 1
 Lamin, 491
Lampetra appendix, 251
 Lamprey, 251
 Lampreys, 147
 Larval secretions, 289
 Lectin-binding assay, 525
Lepidophthalmus louisianensis, 459
 Lepidoptera, 289
 Life-stage comparisons, 261
Limulus polyphemus, 31
 Linoleic acid, 563
Liolophura, 505
 Lipid metabolism, 173
 Lipids, 279, 459
 12-Lipoxygenase, 563
Listonella anguillarum, 203
 Local populations, 1
 Loop 1, 575
 Lunar periodicity, 113
 Lung, 123
 Lutein, 309
 Lysozyme, 203
- Macrobrachium rosenbergii*, 165, 243
 Magic angle spinning NMR, 357
 MALDI-TOF, 243
 Mannose 6-phosphate receptor, 433
 Manoalide, 31
 Marine invertebrates, 347, 391
 Metabolic depression, 147, 469
 Metabolism, 309, 423
 Metabonomics, 357
 Metamorphosis, 251
 Molecular structure, 97
 Mollusc, 235, 513
 Molluscan phylogeny, 505
 Molluscs, 45
 Monoclonal antibodies, 165
 Mortality, 347
 Mouse, 447
 mRNA expression, 65
 Multiple forms, 383
 Muscle, 575
 Muscle-specific, 97
 Mussels, 105, 391
 Myogenin, 97
 Myosin, 575
 Myotoxins, 21
Mytilus edulis, 347
- NADH fluorescence, 469
 Neopterin, 65
 Neuromuscular junction, 533
- Neurotransmission, 533
Nordotis, 505
 N-terminal sequence, 525
 Nuclear matrix, 491
 Nucleotide sequence, 183
 Nucleus, 491
- 11-Octadecadienoic acid, 563
 Octopine, 45
 Oligosaccharides with terminal mannoses, 525
Oncorhynchus keta, 337
 Ophidine, 443
 Opines, 45
 Organic matrix, 235
 Osmoionoregulation, 85
Ostrea edulis, 203
 Ostrich, 481
 Ovary, 113
 Oxidative stress, 347
- P*-Amidinophenyl esters, 337
 Pancreas, 481
Patinopecten yessoensis, 45
 PEPCK activity, 375
 Perciform fish, 183
Petromyzon marinus, 251
 Phenoloxidase, 289
 Phosphagen kinase, 505
 Phosphatidylinositol-specific phospholipase C, 193
 Phosphofructo 1-kinase, 45
 Phosphoinositides, 391, 551
 Phospholipase A₂, 21
 Phospholipase C, 75, 391
 Photoreceptor, 75
 Phylogenetic analysis, 223
 Phylogenetic tree, 97
 Placenta, 0
 Plant lectins, 0
 Plasma steroid hormones, 113
Pleurotus ostreatus, 53
 Podolic cattle, 1
 Polymorphism, 447
 Primary structure, 123
 Primary structures, 1
 Primer extension properties, 299
 Processivity, 399
 Prolactin, 183
 Properties, 299
 Protein carbonyl, 347
 Protein purification, 399
 Proteins, 105
 Protein structure, 223
 Protoporphyrin IX, 155
 Protoporphyrinogen IX, 155
 Protozoa, 11, 65
Pseudocardium, 513
 Pteridine metabolism, 65
 Purification, 11, 155, 299
 Purification of enzyme, 325
 Pyroglutamic acid, 481
- Quantal, 533
- Rabbitfish, 113
 RACE, 97
Rana catesbeiana, 563
- Rat, 213, 319, 443
 Rat alkaline phosphatase isozymes, 193
 Rat liver, 155
 Redox state, 469
 Reproduction, 411
 Rhodanese, 369
 Rhodopsin, 75
 Ribosome-inactivating protein, 519
 RP-HPLC, 1
 RT-PCR, 97, 433
- S1, 575
 Scallop, 45
 SDR family, 53
 Sea anemone, 513
 Sea cucumber, 491
 Seasonal changes, 383
 Sea urchin, 491
 Secreted phospholipase A₂, 31
 Serine protease, 337
 Serotonin, 533
 Serum, 443
 Serum albumin, 251
 Serum proteins, 251
 Sheep, 173
 Sheep fetus, 369
 Shell, 235
 Sialic acid specific lectin, 165, 243
Siganus guttatus, 113
 Signalling, 53
 Signal transduction, 31
 Single step sandwich ELISA, 525
 Snail, 235
 Snake venom, 21
 Somatolactin, 183
 Spawning migration, 147
 Specific substrate, 337
 Squid, 75
 Stability, 399
Steinernema carpocapsae, 279
 Stem-loop, 447
 Steroid hormones, 53
 Stimulation, 173
 Structural variants, 519
Struthio camelus, 481
 Substrate channel, 447
 Superoxide anions, 203
 Synapse, 533
 Synchronous cell division, 65
 Synthetic peptides, 551
- Teleost, 183
 Temperature adaptation, 469, 575
 Testes, 383
 Tetrahydrobiopterin, 65
Tetrahymena pyriformis, 65
Thermococcus fumicolans, 299
 Thermogenesis, 223
 Tianhuafen, 519
 Transcribed microsatellite, 447
 Trehalose, 279
 Trichosanthin, 519
 Tropical fish, 575
Trypanosoma cruzi, 11
 Trypsin, 337
- UDG, 399
 Uncoupling protein 1, 213
 UNG, 399

Uracil-DNA glycosylase, 399
Urea concentration, 375
Urinalysis, 357
Urogenital, 369

Venom, 289
Vertebrate, 433

Vitellogenesis, 411
Vitellogenin, 113

Wheat germ agglutinin, 0
White adipose tissue, 213
White toothed shrew (*Crocidura suaveo-*
lens), 357

Wood mouse (*Apodemus sylvaticus*), 357

Xiphophorus, 433
 β -1,4-Xylan, 325
Xylooligosaccharides, 325

Zebu, 1

AUTHOR INDEX
Vol. 127B, Nos. 1-4

- Abdu, U., 411
Abe, H., 443
Agundis, C., 165
Aminlari, M., 369
Andrião-Escarso, S. H., 21
Aranishi, F., 525
Azadi, A., 369
- Baba, A. S. H., 173
Bamsey, C., 75
Becker, W., 235
Bedding, R. A., 279
Benyamin, Y., 551
Berge, G. M., 423
Berticat, O., 309
Bielecki, S., 325
Bjerkeng, B., 423
Block, B. A., 223
Boldyrev, A., 443
Borges, M. H., 21
Bouquelet, S., 243
Brassart, C., 165
Brown, W. V., 261
Burlando, B., 391
Buttery, P. J., 173
Bythell, J. C., 347
- Calduch-Giner, J. A., 183
Castillo, R., 309
Chang, P. K., 525
Chayoth, R., 411
Cheng, C.-H., 97
Chen, Y.-H., 97
Cheung, R., 75
Company, R., 183
Cooper, R. L., 533
Cramer, T. D., 223
- Danis, M. H., 251
da Silva, R. S. M., 375
Diaz, E., 11
Dietrich, J., 299
Di Luccia, A., 1
Diniz, H., 21
Droba, B., 383
Droba, M., 383
Dzugaj, A., 123
Džugan, M., 383
- Edwards, J. P., 289
Ennion, S., 575
Enomoto, T., 45
Ettelaie, C., 575
- Filosa, M. F., 251
Föll, R., 469
Franck, J. P. C., 223
Fujita, H., 213
Furukohri, T., 505
- Gajardo, M., 11
Gamper, N. L., 147
Garrod, S., 357
Gauvry, L., 575
Gerhard, G. S., 447
Gholami, S., 369
- Giglio, J. R., 21
Gjellesvik, D. R., 399
Gohla, J., 469
Goldemberg, A. L., 85
Goldspink, G., 575
Gonzalez, C., 11
Griffin, J. L., 357
Grundy, M. A., 447
Guddal, P. H., 399
Gutiérrez, J. M., 21
- Hagino, Y., 65
Hamaguchi, A., 21
Harada, T., 193
Harper, J. M. M., 173
Hauton, C., 203
Hawkins, L. E., 203
Henneke, G., 299
Herman, C. A., 563
Higashi, T., 505
Hille-Rehfeld, A., 433
Hirayabu, E., 525
Hirose, H., 525
Holmes, E., 357
Holy, J., 491
Homsí-Brandeburgo, M. I., 21
Hutchinson, S., 203
- Ichinose, H., 65
Ide, T., 213
Inoue, N., 505
Itoh, K., 337
- Jacobs, R. S., 31
Janković, M., 0
- Kabuto, S., 481
Kalinowska, H., 325
Karimi, H., 369
Kauffman, E. J., 447
Khalaila, I., 411
Komoda, T., 193
Koyama, I., 193
Kuroda, R., 65
Kwiatk, O., 551
- Lacey, M. J., 261, 279
Lanes, O., 399
Lanišnik Rižner, T., 53
Lebart, M. C., 551
Lee, W.-C., 97
Lizano, S., 21
Londrville, R. L., 223
López Mañanes, A. A., 85
- Machado, J., 105
MacPherson, J. C., 31
Magnoni, L. J., 85
Mano, N., 525
Mantle, D., 347
Marxen, J. C., 235
Masondo, T. C., 319
Mayeenuddin, L. H., 75
Mazzetti, M. B., 155
McKenney, C. L., Jr, 459
Mingarro, M., 183
- Mitchell, J., 75
Mitsuya, T., 525
Mizobuchi, R., 505
Moura, G., 105
Murakami, M., 337
Muramoto, K., 481
- Nadimpalli, S. K., 433
Nagatsu, T., 65
Nakao, C., 45
Nakashima, S., 65
Nates, S. F., 459
Natori, M., 525
Naude, R. J., 481
Neckameyer, W. S., 533
Nègre-Sadargues, G., 309
Nel, W., 319
Ng, T. B., 519
Nicholson, J. K., 357
Nomura, T., 65
Nozawa, Y., 65
- Ogawa, T., 481
Ohtsuki, M., 65
Ohyama, H., 45
Oliveira, G. T., 375
Oosthuizen, V., 481
- Panfoli, I., 391
Papa, I., 551
Paul, R. J., 469
Pegova, A., 443
Pereyra, A., 165, 243
Pérez-Sánchez, J., 183
Pieragostini, E., 1
Prayitno, S. B., 525
- Qiu, L., 279
Quintero, A., 21
- Raffin, J.-P., 299
Rahman, M. S., 113
Rakus, D., 123
Richards, E. H., 289
Rodrigues, V. M., 21
Rose, H. A., 261
Roustan, C., 551
Rullo, R., 1
- Sagi, A., 411
Salas, J., 11
Sanchez, G., 11
Sato, K., 193
Savina, M. V., 147
Scaloni, A., 1
Schneckenburger, H., 469
Schu, P., 433
Sekizaki, H., 337
Shen, K., 563
Shiraishi, H., 65
Shore, R. F., 357
Sierra, C., 165, 243
Skalecki, K., 123
Slomianny, M. C., 243
Soares, A. M., 21
Solari, A., 11

Author Index

Sorianello, E. M., 155
Strawn, J. R., 533
Sugimura, N., 505
Sumi-Ichinose, C., 65
Suzuki, T., 505, 513

Takahashi, Y., 213
Takano, K., 113
Takemura, A., 113
Tanizawa, K., 337
Tazawa, M., 65
Terblanche, S. E., 319
Thomason, J. C., 347
Toyota, E., 337
Tsai, H.-J., 97

Tullis, A., 223
Turkiewicz, M., 325

Uchida, D., 525

Vaseghi, T., 369
Vazquez, L., 165, 243
Venegas, J., 11
Viarengo, A., 391
Vićovac, L., 0
Vilarinho, L., 105
von Figura, K., 433

Walker, L. A., 357
Walker, S. T., 347

Wang, H. X., 519
Willassen, N. P., 399
Wright, K., 261

Yamamoto, Y., 513
Yehezkel, G., 411
Yerramalla, U. L., 433
Yokouchi, K., 505
Youson, J. H., 251

Žakelj-Mavrič, M., 53
Zenteno, E., 165, 243
Zenteno, R., 165, 243
Zielińska, M., 325
Zulantay, I., 11

